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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
10/683,576	10/10/2003	Stephen F. Vatner	601-1-137	9455	
23565 7:	590 01/13/2005		EXAM	INER	
KLAUBER & JACKSON 411 HACKENSACK AVENUE			MONDESI, ROBERT B		
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HACKENSAC	K, NJ 07601		ART UNIT	PAPER NUMBER	
			1653	1653	

DATE MAILED: 01/13/2005

Please find below and/or attached an Office communication concerning this application or proceeding.

	Application No.	Applicant(s)			
	10/683,576	VATNER ET AL.			
Office Action Summary	Examiner	Art Unit			
	Robert B Mondesi	1653			
The MAILING DATE of this communication app Period for Reply	ears on the cover sheet with the c	orrespondence address			
A SHORTENED STATUTORY PERIOD FOR REPLY THE MAILING DATE OF THIS COMMUNICATION.  - Extensions of time may be available under the provisions of 37 CFR 1.13 after SIX (6) MONTHS from the mailing date of this communication.  - If the period for reply specified above is less than thirty (30) days, a reply - If NO period for reply is specified above, the maximum statutory period v - Failure to reply within the set or extended period for reply will, by statute, Any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b).	36(a). In no event, however, may a reply be ting within the statutory minimum of thirty (30) day will apply and will expire SIX (6) MONTHS from a cause the application to become ABANDONE	nely filed s will be considered timely. the mailing date of this communication. D (35 U.S.C. § 133).			
Status					
1) Responsive to communication(s) filed on	<b>_•</b>				
2a) This action is <b>FINAL</b> . 2b) ⊠ This					
3) Since this application is in condition for allower closed in accordance with the practice under E					
Disposition of Claims					
4) ☐ Claim(s) 1-33 is/are pending in the application. 4a) Of the above claim(s) is/are withdray  5) ☐ Claim(s) is/are allowed.  6) ☐ Claim(s) is/are rejected.  7) ☐ Claim(s) is/are objected to.  8) ☐ Claim(s) 1-33 are subject to restriction and/or expressions.	wn from consideration.				
Application Papers					
9)☐ The specification is objected to by the Examine					
10)☐ The drawing(s) filed on is/are: a)☐ acc					
Applicant may not request that any objection to the					
Replacement drawing sheet(s) including the correct 11) The oath or declaration is objected to by the Ex					
Priority under 35 U.S.C. § 119					
12) Acknowledgment is made of a claim for foreign a) All b) Some * c) None of:  1. Certified copies of the priority documents 2. Certified copies of the priority documents 3. Copies of the certified copies of the priority documents application from the International Bureau * See the attached detailed Office action for a list	s have been received. s have been received in Applicati rity documents have been receive u (PCT Rule 17.2(a)).	ion No ed in this National Stage			
Attachment(s)  1) Notice of References Cited (PTO-892)	4) Interview Summary	(PTO-413)			
Notice of References Cited (PTO-892)     Notice of Draftsperson's Patent Drawing Review (PTO-948)	Paper No(s)/Mail D	ate			
3) Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08) Paper No(s)/Mail Date	5) Notice of Informal F 6) Other:	Patent Application (PTO-152)			

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## **DETAILED ACTION**

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## Election/Restrictions

Restriction to one of the following inventions is required under 35 U.S.C. 121:

- Claims 1-17 drawn to a method of treating cardiac disease in a mammal, a method of modulating myocyte apoptosis in a mammal, a method of reducing the risk of cardiomyopathy or cardiac dysfunction and a method of cardioprotection in a mammal, comprising the administering of an effective amount of a compound or agent that blocks or otherwise inhibits
  Mst1 or Mst1 pathway classified in class 512, subclass 12.
- II. Claims 18-21, drawn to a method of screening for compounds that modulate cardiac myocyte apoptosis, classified in class 435, subclass 7.1.
- III. Claims 22-27, drawn to a composition for modulating cardiac myocyte apoptosis comprising an Mst1 inhibitor, classified in class 530, subclass 350.
- IV. Claim 28-29, drawn to an assay for screening of potential compounds or agents effective to modulate Mst1 activity, classified in class 435, subclass
   7.1.
- V. Claims 30-31, drawn to a method of treating or ameliorating cardiac disease in a mammal comprising administering to said mammal a nucleic acid or vector, classified in class 514, subclass 44.

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VI. Claims 32-33, drawn to an animal model of cardiac disease comprising a transgenic animal, classified in class 800, subclass 3.

The inventions are distinct, each from the other because of the following reasons:

Inventions I and (II, IV-VI), II and (IV-VI), IV and (V-VI), V and VI are unrelated. Inventions are unrelated if it can be shown that they are not disclosed as capable of use together and they have different modes of operation, different functions, or different effects (MPEP § 806.04, MPEP § 808.01). In the instant case the different inventions have different modes of operation, different functions and different effects. The invention of Group I is a method of treating cardiac disease in a mammal, a method of modulating myocyte apoptosis in a mammal, a method of reducing the risk of cardiomyopathy or cardiac dysfunction and a method of cardioprotection comprising the administering of an effective amount of a compound or agent that blocks or otherwise inhibits Mst1 or Mst1 pathway, the invention of Group II is method of screening for compounds that modulate cardiac myocyte apoptosis, the method of invention of Group IV is an assay for screening of potential compounds or agents effective to modulate Mst1 activity, the invention of Group V is a method of treating or ameliorating cardiac disease in a mammal comprising administering to said mammal a nucleic acid or vector, the invention of Group VI is an animal model of cardiac disease comprising a transgenic animal.

Inventions III and I are related as product and process of use. The inventions can be shown to be distinct if either or both of the following can be shown: (1) the

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process for using the product as claimed can be practiced with another materially different product or (2) the product as claimed can be used in a materially different process of using that product (MPEP § 806.05(h)). In the instant case the product can be used in a materially different process such as the process of preparation of antibodies.

The product of the invention of Group III is not used in the methods of inventions of Groups II and IV-V.

Inventions III and VI are unrelated. Inventions are unrelated if it can be shown that they are not disclosed as capable of use together and they have different modes of operation, different functions, or different effects (MPEP § 806.04, MPEP § 808.01). In the instant case the different inventions have different modes of operation, different functions, and different effects. The product of the invention of Group III is a composition for modulating cardiac myocyte apoptosis comprising an Mst1 inhibitor whereas the product of the invention of Group VI is an animal model of cardiac disease comprising a transgenic animal.

Because these inventions are distinct for the reasons given above and have acquired a separate status in the art as shown by their different classification, and search restriction for examination purposes as indicated is proper.

The examiner has required restriction between product and process claims. Where applicant elects claims directed to the product, and a product claim is subsequently found allowable, withdrawn process claims that depend from or otherwise include all the limitations of the allowable product claim will be rejoined in accordance with the provisions of MPEP §

821.04. Process claims that depend from or otherwise include all the limitations of the patentable product will be entered as a matter of right if the amendment is presented prior to final rejection or allowance, whichever is earlier. Amendments submitted after final rejection are governed by 37 CFR 1.116; amendments submitted after allowance are governed by 37 CFR 1.312.

In the event of rejoinder, the requirement for restriction between the product claims and the rejoined process claims will be withdrawn, and the rejoined process claims will be fully examined for patentability in accordance with 37 CFR 1.104. Thus, to be allowable, the rejoined claims must meet all criteria for patentability including the requirements of 35 U.S.C. 101, 102, 103, and 112. Until an elected product claim is found allowable, an otherwise proper restriction requirement between product claims and process claims may be maintained. Withdrawn process claims that are not commensurate in scope with an allowed product claim will not be rejoined. See "Guidance on Treatment of Product and Process Claims in light of *In re Ochiai, In re Brouwer* and 35 U.S.C. § 103(b)," 1184 O.G. 86 (March 26, 1996). Additionally, in order to retain the right to rejoinder in accordance with the above policy, Applicant is advised that the process claims should be amended during prosecution either to maintain dependency on the product claims or to otherwise include the limitations of the product claims. Failure to do so may result in a loss of the right to rejoinder.

Further, note that the prohibition against double patenting rejections of 35 U.S.C. 121 does not apply where the restriction requirement is withdrawn by the examiner before the patent issues. See MPEP § 804.01.

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Any inquiry concerning this communication or earlier communications from the examiner should be directed to Robert B Mondesi whose telephone number is 571-272-0956. The examiner can normally be reached on 9am-5pm, Monday-Friday.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Jon Weber can be reached on 571-272-0925. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Robert B. Mondesi

ROHK-N 1-10-02

ROBERT A. WAX
PRIMARY EXAMINER

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